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Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

\$)	\$180.00

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Complete if Known				
Application Number	10/657,570			
Filing Date .	September 8, 2003			
First Named Inventor	Chandrakumar			
Examiner Name	Not Assigned			
Group Art Unit	Not Assigned			
Attorney Docket No.	2927/1A			

METHOD OF PAYMENT (check all that apply)							FE	E CALCULA	TION (co	ntinued)		
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Name (Print/Type	e)	Rachel	A. Polster		Registr (Attorne)	ation No y/Agent)	0.	47,004	Telephone		314-274-7	354
Signature		FO	chil a.	P	M	大			Date	Dece	ember 11,	2003

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CERTIFICATE OF MAILING BY FIRST-CLASS MAIL (37 CFR 1.8)

Serial No: 10/657,570

Filing Date: September 8, 2003 Group Art Unit: Not Assigned

Docket No: 2927/1A

Invention: Meta-Substituted Phenylene Sulphonamide Derivatives

Date of Deposit: December 11, 2003

I hereby certify that these papers or fee is being deposited with the United States Post Office to Addressee service under 37 CFR 1.10 & 1.8 on the date indicated above and is addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450:

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Linda Haley

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EC 1 5 2003 6	TRANSMITTAL LETTER (General - Patent Pending)		Docket No. 2927/1A
Re Application Of:	Chandrakumar, et. al.		
Serial No.	Filing Date	Examiner	Group Art Unit
10/657,570	10/657,570 September 8, 2003 Not Assigned		Not Assigned
	TO THE COMMISSION	ER FOR PATENTS:	
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ansmitted herewith is:			
	Statement, IDS Form 1449, Copy of In e Citation (2), and Return Postcard	ternational Search Report, Co	py of Supplemental
the above identified	application.		
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Rachel A. Polster 47,004

Signature

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Signature of Person Mailing Correspondence

Linda Haley

Typed or Printed Name of Person Mailing Correspondence



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE A	PPLICATION OF:)	
C	Chandrakumar, et. al.)	GROUP ART UNIT: Not Assigned
)		•	•
SERIAL	NO: 10/657,570)	EXAMINER: Not Assigned
)	Ç
FILED:	September 8, 2003)	DATE: December 11, 2003
	•	•	
TITLE:	Meta-Substituted Phenylene Sulph	onami	de Derivatives
	•		
Commis	sioner of Detents		

P. O. Box 1450 Alexandria, VA 22313-1450

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit herewith Form PTO 1449. Applicants also submit a copy of the International Search Report issued in the corresponding PCT application showing the relevance of this document. Applicants direct the Examiner to the related application(s) for documents previously submitted: specifically, 09/141,547 and 08/824,626. Applicants respectfully request that the examiner consider and enter the documents cited on the enclosed Form PTO 1449 into the file of the above-identified application.. Applicants also request an indication of the same by return of the Form PTO 1449 being initialed and dated by the Examiner.

Please charge the fee of \$180.00 as required by 37 C.F.R. § 1.17(p) to Deposit Account No. 19-1025. No additional fees are believed due to ensure consideration of the attached documents by the Examiner. However, if any additional fees are required or an overpayment of fees made, the Commissioner is hereby authorized to debit or credit our Deposit Account No. 19-1025, as necessary.

12/17/2003 JBALINAN 00000101 191025 10657570

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Respectfully submitted,

Rachel A. Polster

Registration No. 47,004 (314) 274-7354 (St. Louis)

Pharmacia Corporation Global Patent Department P. O. Box 1027 St. Louis, MO 63006 DEC 1 5 2003 55

FORM PTO-1449

U.S. DEPARTMENT OF

COMMERCE, PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO: 2927/1A APPLICATION NO.:

10/657,570

INVENTOR:

Chandrakumar, et. al.

Filed: 9/8/03

Group: Not Assigned

U.S. PATENT DOCUMENTS

	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
 						
 						
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		Document Number	Document Number Date	Document Number Date Name	Document Number Date Name Class	Document Number Date Name Class Subclass

FOREIGN PATENT DOCUMENTS

Examiner							Transla	ition
Initial		Document Number	Date	Country	Class	Subclass	Yes	No
	B1	WO 95/32710	12/7/95	PCT	A61K	31/18		N
	B 2	0 478 328 A1	04/01/92	EPO	C07C	271/22		N
	В3	0 478 363 A2	04/01/92	EPO	C07D	211/22		N
	B4	FR 2 456 731A	12/12/80	France	C07C	129/12	Y	
	B5	EP 0 222 608 A	5/20/87	European	C07C	129/12		N
	B6	WO 92/08464	05/29/92	PCT	A61K	31/55		N
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Sheet 2 of 2

FORM PTO-1449 COMMERCE, PATENT AI	U.S. DEPARTMENT OF ND TRADEMARK OFFICE	ATTY. DOCKET NO.: 2927/1A	APPLICATION NO.: 10/657,570
	N DISCLOSURE BY APPLICANT	INVENTOR: Chandrakumar, et. al.	
(Use several she	ets if necessary)	Filed: 9/8/03	Group: Not Assigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	`	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Examiner		
Initial		
	C1	Fisher, et al., Inhibition of Osteoclastic Bone Resorption in Vivo by Echistatin, an 'Arginyl-Glycyl-Aspartyl' (RGD)-Containing Protein, Endocrinology, Vol. 132, p. 1411-1413 (1993)
	C2	Brooks, et. al., Requirement of Vascular Integrin Alpha v Beta 3 for Angiogenesis, Science, Vol. 264, pp. 569-571 (1994)
	C3	Brooks, et. al., Integrin Alpha v Beta 3 Antagonists Promote Tumor Regression by Inducing Apoptosis of Angiogenic Blood Vessels, Cell, Vol. 79, pp. 1157-1164 (1994)
	C4	Selftor, et. al., Role of the Alpha v Beta 3 Integrin in Human Melanoma Cell Invasion, Proc. Natl. Acad. Sci. U.S.A, Vol. 89, pp. 1557-1561 (1992)
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Information Disclosure Citation for Patent Application

Appliants Cory

Serial Number

08/824,626

Sheet # 1

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U.S. Pate	nt Docu	ments					· · · · · · · · · · · · · · · · · · ·
Exmnr Init	Seq	Document Number	Issue Date	Name	Class	Sub Class	Filing Date
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Foreign I	Patent D	ocuments					
Exmnr Init	Seq	Document Number	Publicatio n Date	Country	Class	Sub Class	Translation
27 J	B1 B2 B3	WO 95/32710 0 478 328 A1 0 478 363 A2	12/07/95 04/01/92 04/01/92	PCT EPO EPO	A61K C07C C07D	31/18 271/22 211/22	
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Attorney Docket No.

2927

Information Disclosure

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Sheet # 1

Citation for Patent Application

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Attorney Docket No. 2927/1	Serial Number 09/141,547	
Applicant Chandrakumar et al.		
Filing Date 08/28/98		<i>Group</i> Unknown

U.S. Patent Documents

Exmnr Init	Seq	Document Number	Issue Date	Name		Class	Sub Class	Filing Date
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Foreign Patent Documents

Exmnr Init	Seq	Document Number	Publication Date	Country	Class	Sub Class	Translation
STM .	B1 B2 B3 B4 B5 B6	FR 2 456 731 A EP 0 222 608 A WO 92/08464 WO 95/32710 0 478 328 A1 0 478 363 A2	12/12/80 05/20/87 05/29/92 12/07/95 04/01/92 04/01/92	France European PCT PCT EPO EPO	C07C C07C A61K A61K C07C C07D	129/12 129/12 31/55 31/18 271/22 211/22	Y Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z

Other Documents (including Author, Title, Date, Pertinent Pages, Etc.)

Exmnr Init	Sea	Author	Title Cublication Calman Co. 1
			Title, Publication, Relevant Pages, Date and Place of Publication
274	C1	Fisher et al.	"Inhibition of Osteoclastic Bone Resorption In Vivo by Echistatin, an 'Arginyl-Glycyl-
1	C2	Brooks et al.	Aspartyl' (RGD)-Containing Protein", Endocrinology, Vol. 132, p. 1411-1413 (1914)
1 1			"Requirement of Vascular Integrin α v β3 for Angiogenesis" Science, Vol. 264, pp. 569-571/194
	C3	Brooks et al.	" Integrin α ν βs Antagonists Promote Tumor Regression by Inducing Apoptosis of
	C4	Seftor, et al.	Angiogenic Blood Vessels" <u>Cell</u> , Vol. 79, pp. 1157-1164. ((ΔΑΥ) "Role of the ανβ3 Integrin in Human Melanoma Cell Invasion", <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 89, pp. 1557-1561 ((942)
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